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	AC	1,951,669	3/20/34	Ramsey					
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	AD	2,855,467	10/7/58	Curry					
	AE	2,935,575	5/3/60	Bobb		-	WED_		
$\longrightarrow$	AF	2,975,243	3/14/61	Katella	_ OF	CE	6 5005 AED		
	AG	3,008,013	11/7/61	Williamson et al	110		a 2002		
	AH	3,012,222	12/5/61	Hagemann	S	ED A	200	1	
	AI	3,013,905	12/19/61	Gamzon R.R. et al		المد	Center 260		
	AJ	3,136,867	6/9/64	Brettell	Tech	Moina			
	AK	3,209,084	9/28/65	Gamzon, R.R. et al			,		
	AL	3,345,469	10/3/67	Rod .					
	AM	3,373,251	3/12/68	Seeler, C.E.					
	AN	3,389,226	6/18/68	Peabody					
	AO	3,398,810	8/27/68	Clark III					
	AP	3,674,946	7/4/72	Winey				_	
	AQ	3,787,642	1/22/74	Young Jr.					
VIII)	AR	3,833,771	9/3/74	Collinson					
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BA 3,836,951	9/17/74	Geren et al			
BB 3,892,927	7/1/75	Lindenberg			
BC 3,919,499	11/11/75	Winey			
BD 3,941,946	3/2/76	Kawakami et al			-
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BL 4,284,921	8/18/81	Lemonon et al			ROOM
	10/13/81	Thompson			3
BN 4,378,596	3/29/83	Clark			
BO 4,385,210	5/24/83	Marquiss			
BP 4,418,404	11/29/83	Gordon et al			
BQ 4,419,545	12/6/83	Kuindersma			
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BY ELECTROSTA Wagner, Ronald	TIC LOUDS	PEAKER DESIGN AND Cuteur Press Publishers, 1993	ONSTRUCTION	Chapters 4 ar	nd 5, pages 59-91,
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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE PTO-1449 ATTY. DOCKET NO. SERIAL NO. T9574.NP 10/075,936 APPLICANT LIST OF PRIOR ART CITED BY APPLICANT Croft III et al FILING DATE GROUP 1-25-02 2838 **U.S. PATENT DOCUMENTS** DOCUMENT **FILING DATE** NUMBER DATE NAME **CLASS SUBCLASS** IF APPROPRIATE CA 4,429,193 1/31/84 Busch-Vishniac et al CB 4,434,327 2/28/84 Busch-Vishniac et al CC 4,439,642 3/27/84 Reynard RECEIVED 4,471,172 CD 9/11/84 Winey CE 4,480,155 10/30/84 Winey SER 0 6 2002 CF 4,558,184 12/10/85 Busch-Vishniac et al CG Technology Center 2000 4,593,160 6/3/86 Nakamura CH 4,593,567 6/10/86 Isselstein et al CI 4,672,591 6/9/87 Breimesser et al CJ 4,695,986 9/22/87 Hossack CK 4,703,509 10/27/87 Kanchev CL 4,751,419 6/14/88 Takahata CM 4,823,908 4/25/89 Tanaka et al CN 4,885,781 12/5/89 Seidel CO 4,887,246 12/12/89 Hossack et al CP 4,888,086 12/19/89 Hossack et al CO 2/27/90 4,903,703 Igarashi et al CR 4,908,805 3/13/90 Sprenkels et al FOREIGN PATENT DOCUMENT TRANSLATION DOCUMENT NUMBER DATE COUNTRY **CLASS** SUBCLASS YES NO CS CT CU CV CW OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.) CX CY CZ **EXAMINER** DATE CONSIDERED -0' \*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance And not considered. Include copy of this form with next communication to Applicant.

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	DD	5,142,511	8/25/92	Kanai et al	_				
	DE	5,153,859	10/6/92	Chatigny et al					
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	DK	5,638,456	6/10/97	Conley et al		techno	logy Center	2600	
	DL	5,700,359	12/23/97	Bauer	i-				
	DM	5,850,461	12/15/98	Zelinka					
	DN	5,901,235	5/4/99	Thigpen et al			<del></del>		
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Y	DP	6,154,557	11/28/00	Montour et al					
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136	AA	3,829,623	Aug. 13, 1974	Willis et al.			
36	AA	4,338,489	Jul. 6, 1982	Gorike			
36	AC	4,468,530	Aug. 28, 1984	Torgeson			
Bh	AD	4,803,733	Feb. 7, 1989	Carver et al.			
3/2	AE .	5,003,609	Mar. 26, 1991	Muraoka			
32	AF	5,003,610	Mar. 26, 1991	Adachi, et al.			
32	AG	5,430,805	Jul. 4, 1995	Stevenson et al			
34	AH	5,953,438	Sep. 14, 1999	Stevenson et al.		<u> </u>	
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